(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 21 July 2005 (21.07.2005)

PCT

(10) International Publication Number WO 2005/065707 A3

A61K 39/12, (51) International Patent Classification⁷: C12N 15/861, C07K 14/18

(21) International Application Number:

PCT/IN2004/000432

(22) International Filing Date:

30 December 2004 (30.12.2004)

(25) Filing Language:

English English

(26) Publication Language:

4 January 2004 (04.01.2004)

(71) Applicant (for all designated States except US): NA-TIONAL INSTITUTE OF IMMUNOLOGY [IN/IN]; Aruna Asaf Ali Marg, New Delhi 110 067 (IN).

(72) Inventor; and

(30) Priority Data: 1516/DEL/2003

- (75) Inventor/Applicant (for US only): VRATI, Sudhanshu [IN/IN]; National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067 (IN).
- (74) Agents: BHOLA, Ravi et al.; K & S Partners, 84-C, C6 Lane, Off Central Avenue, Sainik Farms, New Delhi 110 062 (IN).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, $MG,\,MK,\,MN,\,MW,\,MX,\,MZ,\,NA,\,NI,\,NO,\,NZ,\,OM,\,PG,$ PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

Published:

- with international search report
- with amended claims
- with (an) indication(s) in relation to deposited biological material furnished under Rule 13bis separately from the description
- (88) Date of publication of the international search report: 25 August 2005

Date of publication of the amended claims: 27 October 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RECOMBINANT VACCINE AGAINST JAPANESE ENCEPHALITIS VIRUS [JEV] INFECTION AND A METHOD THEREOF

(57) Abstract: The present invention relates to a novel recombinant adenovirus (RAdEs) vaccine against Japanese encephalitis virus (JEV) infection, wherein said vaccine produces secretory JEV envelope protein; an effective and superior method of immunization to JEV infection; also, a method of preparing the recombinant RAdEs vaccine.